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INFORMATION REPORT

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SUBJECT: Power Transmission and Distribution System,
Hwanghae Province, North Korea

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In late November 1951 the Chaeryong (125-37, 38-24)(YC-2853) electric power supply offices, managed by KI Yong-hak (李永赫), 35 years old, and administering the power for Hwanghae province, controlled 12 transformer stations and eight wire maintenance stations and directed five repair teams. Five engineers, 16 linemen, and three power-switchboard operators were at the Chaeryong office. A diagram illustrating power distribution within the province appears in Attachment A of this report.

The transformer stations, some of the officials in charge, and the technical employees at each included the following:

- a. Chaeryong station, with one 5,000-kilowatt transformer, directed by YANG Nam-su (楊南洙), 28 years old, a member of the NKLP. The station employed seven engineers.
- b. Samch'on station at Samch'on-ni (125-19, 38-22)(YC-0249), with three operative 1,000-kilowatt transformer and one inoperative 1,000-kilowatt transformer, managed by KIM Hak-yong, 23 years old. The station had eight engineers. KIM, a member of the NKLP, studied one year at the engineering school in Pyongyang.
- c. Silyul station (125-12, 38-31)(YC-9265), with three 300-kilowatt transformers, managed by KIM So-kyon (金素暉), 36 years old. Three engineers were at this station.
- d. Songjuwa (125-48, 38-20)(YC-8628) station, with two 300-kilowatt transformers, managed by YOUNG Han-cho (鄭漢朝), 20 years old. A student for a semester at the electrical institute in Pyongyang, this station employed three engineers.
- e. Nakyon (낙연) mine station at Nakson-dong (approximately 125-09, 38-16)(YC-8837), with three 300-kilowatt transformers. The station employed three engineers.
- f. Chunghua (125-48, 38-52)(YC-4305) station, two engineers.

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- 2-
- g. Hukkyo-dong (125-47, 38-47) (YC-4296) station, two engineers.
 - h. Hwangju (125-47, 38-40) (YC-4283) station, two engineers.
 - i. Simch'ön-ni (125-40, 38-51) (YD-3103) station, two engineers.
 - j. Pukyul (北栗) station, with two 300-kilowatt transformers, one engineer and three switchboard operators.
 - k. Sariwon (125-46, 38-30) (YC-4164) station, seven engineers, seven switchboard operators, and one technical engineer.
 - l. Mat'a-ri (125-40, 38-25) (YC-3355) station, with seven 700-kilowatt transformers, three switchboard operators.
 - m. Tongch'ang-ni (125-34, 38-36) (YC-2375), with two 100-kilowatt transformers, two engineers.
 - n. Anak (125-30, 38-30) (YC-1864) station, with three 200-kilowatt transformers, one engineer and three switchboard operators.
 - o. Sinch'ön-Hwap'o (信川-華普) station, two engineers.
 - p. Malch'ön-dong (125-43, 38-33) (YC-3770) station, one engineer.
 - q. Haeju (125-42, 38-02) (YC-3713) station, one technical engineer, one engineer, and seven switchboard operators.
 - r. Kwan-dong (125-40, 38-03) (YC-3414) station, three switchboard operators.
 - s. Sinch'ön (125-30, 38-21) (YC-1847) station, with two 2,000-kilowatt transformers and employing two engineers and three switchboard operators.

All transformer stations, except the station at Songhwa, were camouflaged or under some type of shelter.

- 3. Wire maintenance stations and the technicians employed at each included the following:
- a. Sukyo station in Songhwa-gun, two engineers.
- b. Nampu station in Sinch'ön-gun, two engineers.
- c. Ma-dong (approximately 125-52, 38-28) (YC-5061) station, two engineers.
- d. Sinwon-ni (125-44, 38-12) (YC-3931) station, two engineers.
- e. Sangang (approximately 125-42, 38-25) (YC-3655) station, one engineer.
- f. Chukch'ön tower station at Pyoksong-gun (possibly 125-34, 38-11) (YC-2529), two engineers and two switchboard operators.
- g. Sukdal tower station at Changyon-gun (possibly 125-08, 38-08) (YC-8722).
- h. Haeju Gaep'meso station, two engineers.
- 4. Repair teams were based at Sanch'ön, Chaeryong, Sangang, Sariwon, and Chunghwa. The team at Sariwon had twenty members. All other teams had ten members.

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5. The maximum load permitted at the Sapeh'on station was 150 kilovolt-amperes x 2, 6.8 amperes on the 22 kilovolt-distribution side, and 43.5 amperes on the 3.3 kilovolt-distribution side; the Ullyul station, 300-kilovolt-amperes x 3, 23.3 amperes on the 22 kilovolt side, and 157.8 amperes on the 3.3 kilovolt side; the Songhwa station, 200 kilovolt-amperes x 3, 15.7 amperes on the 22 kilovolt side, and 105.2 amperes on the 3.3 kilovolt side; the Hulkye station, 100 kilovolt-amperes x 3, 4.5 amperes on the 22 kilovolt side, and 30.3 kilovolts on the 3.3 side, and the Sinch'om station, 2,000 kilovolt-amperes x 2, 90.9 amperes on the 22 kilovolt side, and 607.8 kilovolts on the 3.3 side.
6. Bear oil, imported from Manchuria, was being used as a substitute for transformer oil. Transmission wire was also in short supply. Transformers of less than fifty kilowatts were being manufactured at Kangson-dong (125-28, 38-10) (YC-1627).
7. In late July 1951 the short distances between the anti-shell wall of the main transformer and the ground wire were to be enclosed with barbed wire to prevent accidents.
8. In early September 1951 admission to the station and the compounds of the repair teams required an identification card and an authorizing letter. The chief of the Chaeryong power supply office warned that "security phones" in the stations were to be used only by the employees. For security reasons and to prevent accidents, patrols were to make rounds in each station once an hour to check on conditions in the compounds.

Encl: 1 diagram

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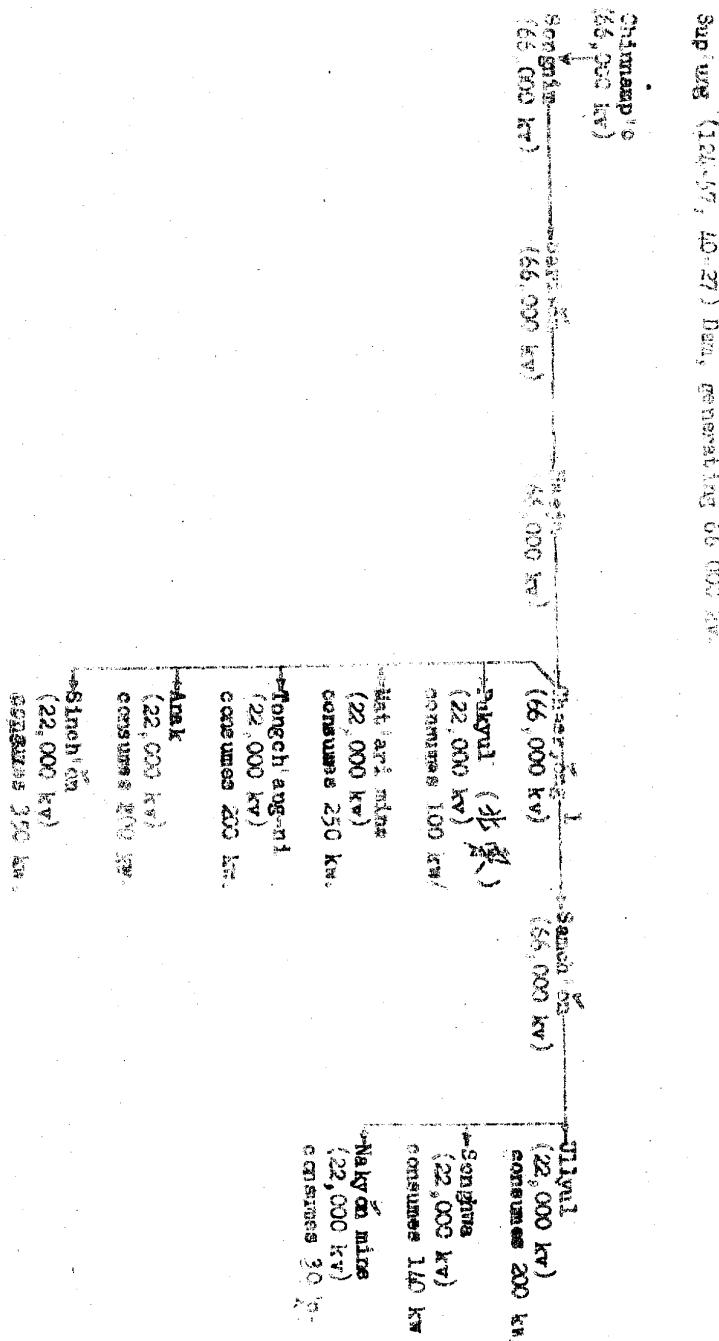
ATTACHMENT A

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The following is a reproduction of a diagram [redacted]
 [redacted] of the electric power supply and transmission system de-
 scribed in the report.

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